

ABSTRACT OF THE DISCLOSURE

The present invention discloses a stereo image measuring device capable of carrying out high-speed and highly reliable three-dimensional measurement for a stereo image, easily correcting any omitted measurement, measurement errors or the like, and achieving a much higher speed, efficiency and reliability for measurement as a whole. A survey instrument measures a number of control points on site. A camera is, for example a digital camera, a film camera or the like. A control point search unit executes correlation between a control point measured beforehand by the instrument survey and an image. A search area setting unit sets a search area to be used for image correlation processing based on the control points correlated by the control point search unit, and sets respective data blocks, i.e., a reference data block and a search data block. An arithmetic operation unit executes orientation calculation, and image correlation processing (stereo matching) for the search area set by the search area setting unit. A display unit is a stereo monitor, a personal computer monitor or the like providing stereoscopic vision. A measuring unit executes additional measurement when the result of correlation processing is not satisfactory.